DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453

(707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.21

WELDING WITNESS REPORT

Resident Engineer: Pursell, Gary **Report No:** WWR-000144 Address: 333 Burma Road **Date Inspected:** 10-Mar-2007

City: Oakland, CA 94607

OSM Arrival Time: 800 **Project Name:** SAS Superstructure **OSM Departure Time:** 1730 Prime Contractor: American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

Witness:	Procee	dure Qualif	ication Record	Welder Qua	lification	Fracture Critical	
	Weldi	ng	NDT	Mechnical T	esting, describe:	Macroetch Test	
Index Lot #: B49-004-07				Witness Lot #: B71-011-07			
Bridge No: 34-0006				Component: Bid: 52, 55 Tower & Girder			
Welder:	Jiang Xi	oa Hu		ID #:	NA		
Joint Descri	ption:	T-Joint		N/A	WPS ID #:	PWPS-B-T-2133-1	N/A
Base Metal:		A709-50F-2	2	N/A	PQR ID #:	HP200715	N/A
Thickness:		26 mm		N/A	Process:	FCAW	N/A
Electrode Spec/Class: A5.20/E71T1-1				N/A	Positions:	3F max. single pass weld	N/A
Backing Ma	terial:	NA		N/A	CWI:	Liu Liu	N/A
Average An	ıps:			N/A	AWS Code:	D1.5	N/A
Average Vo	lts:			N/A	Applicable Sec:	5.10.3	N/A
Travel Spee	d:			N/A	Heat Input:		N/A
Preheat:				N/A	-		

Summary of Items Observed:

The Caltrans Quality Assurance (QA) Inspector was present as requested to observe fillet welds microetch test for Procedure Qualification Record (PQR) HP300715. This test specimen was welded with the Flux Core Arc Welding (FCAW-G) process with the E71T-1 TWE-711 1.4 mm electrode, in the 3F (vertical) position. The test was performed per the AWS D1.5, Section 5.10.3 requirements. After the QA inspector performed visual inspection on the single fillet pass for PQR HP 200715 discovered that weld appeared to be in compliance with the Contract documents. The QA inspector performed dimensional inspection and discovered that test sample for the HP 200715 had a maximum single fillet weld of approximately 8.5 mm.

Summary of Conversations:

The QA inspector did not have any significant conversations for this test on this date.

is in general conformance with the contract requirements.

Observed welding, testing or results: is not in conformance with the contract requirements.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural

WELDING WITNESS REPORT

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Materials for your project.

Inspected By: Acuna, Alfredo Quality Assurance Inspector **Reviewed By:** McClary,David QA Reviewer